FOURTH EDITION

Organic Chemistry

L. G. Wade, Jr.

Whitman College

BEST AVAILABLE COPY

Saddie River, New Jersey 07458

Glossary

77

LBO

nic ve

BEST AVAILABLE COPY

CH₃ CH₃

acid chloride An acid derivative with a chlorine atom in place of the hydroxyl group. (p.75)

Chapter 2 Glossary

Γ R—C—0

alcohol A compound that contains a hydroxyl group; R-OH. (p. 73)

aldehyde A carbonyl group with one alkyl group and one hydrogen; R—C—H. (p. 74)

alkanes Hydrocarbons containing only single bonds. (p. 70)

alkenes Hydrocarbons containing C=C double bonds. (p. 71)

alkynes Hydrocarbons containing C=C triple bonds. (p. 72)

·Č—NH,

alkyl group A hydrocarbon group with only single bonds; an alkane with one hydrogen removed, to allow bonding to another group; symbolized by R. (p. 70)

mide An acid derivative that contains an amine instead of the hydroxyl group of the acid.

)

R—C—NHR'

O R—C—NR;

mine An alkylated analogue of ammonia; R-NH2, R2NH, or R3N. (p. 75)

from atic hydrocarbons (arenes) Hydrocarbons containing a benzene ring, a six-membered with three double bonds. (p. 72)

Find dipole moment A measure of the polarity of an individual bond in a molecule, defied as $\mu = (4.8 \times d \times \delta)$. μ is the dipole moment in debyes $(10^{-10}$ esu-Å), d is the bond length in angstrom units, and δ is the effective amount of charge separated, in units of the electronic charge. (p. 59)

property group The CO functional group, as in a ketone or aldehyde. (p. 74)

perboxyl group The -COOH functional group, as in a carboxylic acid. (p. 74)

Thought acid A compound that contains the carboxyl group; R—C—OH. (p. 74) trans isomers (geometric isomers) Stereoisomers that differ in their cis-trans arrangement on a ring or a double bond. The cis isomer has similar groups on the same side, while trans isomer has similar groups on opposite sides. (p. 58)